1. Greate a VM in Azure.

Resource Group: It is a container that holds related resources

Por an Azure solution. Logical Grouping of sesources.

Logical Gnouping - All sesownes within a nesource group shoure the same life cycle. You can deploy, manage and monitor nesources as a group nather than handling them individually.

3

2) 88h - i zomatapem @ username @ ip-address

Goo-everyone q-read goo-everyone 2-write wer 1-execute.

chmod 600 tomato.pem + 6 solve Unprotected privale key tie

Successfully logged into VM.

(3) secure copy

sep Coptions (Cource) destination

-i -identify lile -specifies a private key file for authentication like per

-> ; recursively copy entire directores.

error - space in source address

-) " 11 -> keep source address in quotes.

Sep - 1 - 2 romata pem / zomata / zomato vana@ip_adhe:/home/

tran this command in your local computes.

g. Install all neccessary modules python
mysql
neccessary modules in um

BRun the ipy file.

ション

1) Warning: Unprotected Private key file

Modified permissions of private key using chmod

chmod 600 zomala.pem

in vm ?

- i) sudo apt update to update package index to ensure we have latest package index.
- ii). sudo apt install mysql-server

 sudo mysqd+secure installation

 sudo mysqd-- u root -p

set password for root:

ALTER USER 'root'@'localhout' IDENTIFIED with

mysel-notive-password BY 'new-password';

FLUSH privileges;

iti). sudo e apt install python3 venv

venv - sudo apt install python3 venv

python -m venv vanal zooigyy

source eniggy / bin lactivale

pip install - r requirements.txt

for outside the VM, which is essential for development, testing and potentially deploying in certain environments.

v). Even though I sun this I could access the web application. After doing some sessouth I found that I didn't add an inbound part sule on post 8000 and didn't set up fireball sellings.

So, first in NSG (Network Security Group) I created an inbound port rule and in vm it I run these commands.

\$ sudo of w allow 22/tcp

environment. It allow you to define and control a network that is private to your cloud presources, providing a way to securely connect virtual machines, databases and other resources.

But before that, you need to explicitly allow SSH traffic before enabling UFW (Uncomplicated Firewood). Enabling UFW blocks 8SH connection. So Arst run:

4 sudo use allow 88h (or)

1 sudo of w allow 22/tcp

& sudo u fu enable

4 sudo utu allow 8000/tep

I sudo uho statues.

VFW - frewall management tool

- simplifies the process of managing firewall orules compared to
directly using iptables

- provides straightforward commands for adding removing and
tisting rules

Ex: setting the default policy to deny all incoming and outgoing

traffic:

d sudo utwo default deny incoming

4 sudo utwo default deny outgoing

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